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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/015,365	12/13/2001	Bruce Robie	Implex-18	2786
28581 759	90 06/03/2005		EXAMINER	
DUANE MORRIS LLP			STOKES, CANDICE CAPRI	
PO BOX 5203				
PRINCETON, NJ 08543-5203			ART UNIT	PAPER NUMBER
			3732	
			DATE MAILED: 06/03/2009	5

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
Office Anti- Current	10/015,365	ROBIE ET AL.				
Office Action Summary	Examiner	Art Unit				
	Candice C. Stokes	3732				
The MAILING DATE of this communical Period for Reply	tion appears on the cover sheet wit	th the correspondence address				
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNICATION OF COMMUNICATION OF THIS COMMUNICATION	ATION. 37 CFR 1.136(a). In no event, however, may a recation. lays, a reply within the statutory minimum of thirty ory period will apply and will expire SIX (6) MON' 1, by statute, cause the application to become AB.	oply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed						
· —						
, —	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) ⊠ Claim(s) <u>1,3,5-7,9-13,15-17,19-21,23,2</u> 4a) Of the above claim(s) is/are 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1,3,5-7,9-13,15-17,19-21,23,2</u> 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction	withdrawn from consideration. 25-27,29-33,35-37 <u>and 39-46</u> is/ar					
Application Papers						
 9) The specification is objected to by the I 10) The drawing(s) filed on <u>12/31/01</u> is/are Applicant may not request that any objection 	: a)⊠ accepted or b)□ objected					
Replacement drawing sheet(s) including the						
11) The oath or declaration is objected to b						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim fo a) All b) Some * c) None of: 1. Certified copies of the priority do 2. Certified copies of the priority do		·				
	the priority documents have been					
application from the International	•					
* See the attached detailed Office action	for a list of the certified copies not	received.				
Attachment(s)	Λ Π (Summary (PTO-413)				
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO 3) Information Disclosure Statement(s) (PTO-1449 or PT Paper No(s)/Mail Date 	O-948) Paper No(s	summary (P10-413) s)/Mail Date nformal Patent Application (PTO-152)				

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DETAILED ACTION

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 05/17/05 has been entered.

Claim Objections

Claim 1 is objected to because of the following informalities: in lines 8-9, "the first plurality of teeth" should read "the second plurality of teeth" and in lines 11-12, "measured between the first" should read "measured between the first". Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1,3,10-13,20,21,23,30-33,40-41 and 45-46 are rejected under 35 U.S.C. 102(e) as being anticipated by Hamada (USPN 6,436,101). With respect to Claims 1,10,11,20,21,30,31, and 40 Hamada discloses "an instrument for distracting a disc space between adjacent vertebrae

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and simultaneously preparing endplates of the vertebrae 451". "Instrument 451" having "a body 455 having an upper surface 457" and lower surface 471". Furthermore, "instrument 451" comprises "a first plurality of teeth 507 extending across the upper surface 457" and "a second plurality of teeth 521 extending across the lower surface 471" as best seen in FIG. 44. As to Claims 12 and 32, FIG. 37 shows the upper and lower surfaces 457,471 taper posteriorly such that the body has a thickness that decreases from the "anterior end 477" to the "posterior end 475". With regards the Claims 3,13,23, and 33 as best shown in FIG. 35, "the instrument 451", further comprises "an inserter 105" removably coupled to "the body 455".

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 1) Claims 9,19,29, and 39 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hamada. Hamada discloses the claimed invention except for the upper and lower surfaces of the instrument taper from the anterior end to the posterior end at an angle of about 7 degrees. It would have been obvious to one having ordinary skill in the art at the time of the invention to design the instrument such that it decreased at an angle of about 7 degrees from the anterior end to the posterior end, since it has been held that discovering an optimum value of a result effective variable involves only routine skill in the art. *In re Boesch*, 617 F.2d 272, 205 USPQ 215 (CCPA 1980).

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2) Claims 5-7,15-17,25-27,35-37 and 42-44 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hamada in view of Waldman (USPN 5,342,365). Hamada discloses the claimed invention with the exception of the first and second plurality of teeth including anterior wedges surfaces and posterior shovel surfaces. Regarding Claims 5,15,25, and 35 Waldman further teaches the plurality of teeth including arcuate root surfaces 26. As to Claims 6,16,26, and 36 wedge surfaces 38 and shovel surfaces 28 intersect to define cutting edges 42. It would have been obvious to one having ordinary skill in the art at the time of the invention to incorporate the wedge and shovel surfaces as taught by Waldman into the instrument disclosed by Hamada in order to maintain the sharpness of the rasp and prevent build-up of excess tissue between the teeth of the rasp.

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Regarding Claims 7,17,27, and 37, Hamada and Waldman teach the claimed invention except for the wedge and anterior surfaces angling back at the indicated angles. It would have been obvious to one having ordinary skill in the art at the time the invention was made to angle the surfaces back at 60 and 10 degrees relative to the imaginary line, since it has been held that discovering an optimum value of a result effective variable involves only routine skill in the art. In re Boesch, 617 F. 2d 272, 205 USPQ (CCPA 1980).

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Response to Arguments

Applicant's arguments filed 05/17/05 have been fully considered but they are not persuasive. Applicants submit that the disclosure provided by the Hamada patent of record does not teach or suggest an instrument or system comprising the presently recited structure of independent claims 1,11,21,31, and 45-46 and request that the rejection under U.S.C. 102 (e) be withdrawn. The Examiner asserts that the Hamada reference of record does meet the limitations of the independents claims as currently presented. Specifically to the amended portion of the independent claims, Hamada does teach a instrument with an upper and lower surface defining a body thickness that continuously decreases from anterior end to posterior end as shown in Fig. 17. The thickness of the body at the anterior end or at its maximum height is shown as being "SS". Further, Fig. 17 also shows that the first plurality of teeth are in a first plane and the second plurality of teeth are in the second plane. Therefore, Claims 1,3,5-7,9-13,15-17,19-21,23,25-27,29-33,35-37,39-40 and 41-46 remain rejected.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Candice C. Stokes whose telephone number is (571) 272-4714. The examiner can normally be reached on 8:00am - 4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kevin Shaver can be reached on (571) 272-4720. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Candice C. Stokes

Cary E. O'Connor Primary Examiner